

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20774	(Gibson\$.in or hansen\$.in.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:23
L2	78	L1 AND (detergent composition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:20
L3	41	L2 AND (endo-glucanase OR cellulase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:24
L4	33692	detergent composition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:23
L5	33614	L4 NOT (Gibson\$.in or hansen\$.in.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:23
L6	3315	L5 AND (endo-glucanase OR cellulase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:25
L7	965	L6 AND (anti-redeposition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:32
L8	11	L6 AND (anionic tenside\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:26
L9	0	(endo-glucanase) SAME (anionic-tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:33

EAST Search History

L10	0	(endo-glucanase) AND (anionic-tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:34
L11	2	(endo glucanase) AND (anionic tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:35
L12	21	(cellulase) AND (anionic tensides)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:39
L13	7	(endo glucanase) AND (anti-redeposition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:48
L14	3	(endo glucanase) SAME (weight ratio)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 09:59
L15	602	(detergent composition) SAME (pH range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:07
L16	0	I15 AND ("5.5-10.5")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:01
L17	0	I15 AND (pH "5.5-10.5")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:01
L18	27	(endo-glucanase) SAME (pH)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/05/03 10:08

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endo-glucanase AND detergent

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1. **ENDO-BETA-1,4-GLUCANASE FROM BACILLUS**
OUTTRUP, Helle / SCHÜ / LEIN, Martin / ESKELUND, Mads, Bjø / rnvad / GIBSON, Keith / NOVOZYMES A/S, PATENT COOPERATION TREATY APPLICATION, Dec 2002
...encoding such an **endo- beta-1,4-glucanase**, and use...5 in the **detergent**, paper and...suitable for **detergents**. There is...preferably an **endo-beta- 1,4-glucanase**, activity...function. The **endo-glucanase** of the invention...especially in **detergent** compositions...
Full text available at patent office. For more in-depth searching go to  **view all 199 results from Patent Offices**
similar results
2. **FAMILY 6 ENDO-1,4-[bgr]-GLUCANASE VARIANTS AND CLEANING COMPOSITIONS CONTAINING THEM**
LUND, Henrik / NIELSEN, Jack, Bech / SCHULEIN, Martin / DAMGAARD, Bo / ANDERSEN, Kim, Vilbour / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Jan 1999
FAMILY 6 ENDO-1,4-#bgr#-GLUCANASE VARIANTS AND...including laundry **detergent compositions...containing an **endo-1,4-0- glucanase** of the glycosyl...the parent **endo-beta-1,4-glucanase** or cellulase...enzyme with poor **detergent** compatibility...**
Full text available at patent office. For more in-depth searching go to  **view all 199 results from Patent Offices**
similar results
3. **Endo-B-1,4-glucanases from saccharothrix**
Bjø / rnvad, Mads Eskelund / Hatakeyama, Mariko / Schü / lein, Martin / Nielsen, Jack Bech / NovoNordisk A/S, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Mar 2001
...comprising an enzyme having **endo-[bgr]-1,4- glucanase** activity obtainable from...the enzyme) exhibiting **endo-[bgr]-1,4- glucanase** activity selected from...preparation being useful in a **detergent** or fabric softener composition...
Full text available at patent office. For more in-depth searching go to  **view all 199 results from Patent Offices**
similar results
- 4. Proteolytic release of membrane-bound endo-(1,4)-beta-glucanase activity associated**

[with cell wall softening in Achlya...](#)

Terry W Hill / Darlene M Loprete / Kim N Vu / Mokhtari Susan P Bayat / L

Vanessa Hardin, Can J Microbiol, Jan 2002

...demonstrate a latent **endo-(1,4)-beta-glucanase** activity in a mixed...much smaller effect. **Detergent** treatment of membranes releases two **glucanases** detectable by electrophoretic...migrate in parallel with **glucanases** secreted during wall...

MEDLINE/PubMed Citation on  PubMed

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[similar results](#)

[5. Cloning of a gene encoding a highly stable endo- \$\beta\$ -1,4-glucanase from Aspergillus niger and its expression in yeast](#)

Hong, J. / Tamaki, H. / Akiba, S. / Yamamoto, K. / Kumagai, H., Journal of Bioscience and Bioengineering, Jan 2001

...three types: **endo-13-1,4-glucanases** [EC 3.2.1.4...been used in **detergents** (1-2), the pulp...use in laundry **detergents**, the cellulase...resistant to **detergent** components such...laboratory, an **endo-13-1,4-glucanase** was purified...

Published journal article available from  ScienceDirect

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[6. NOVEL ENDO-BETA-1,4-GLUCANASES](#)

SCHÜ / LEIN, Martin / BJØ / RNVAD, Mads, Eskelund / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Dec 2000

...homologous to a *Bacillus lichenif*ois family 9 **endo-0-1,4- glucanase**, to an isolated polynucleotide molecule encoding such an **endo-0-1,4- glucanase**, and use of the enzyme in the **detergent**, paper and pulp, oil drilling, oil extraction...

Full text available at patent office. For more in-depth searching go to  LexisNexis

[view all 199 results from Patent Offices](#)
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[7. ENDO-[bgr]-1,4-GLUCANASES FROM](#)

BJØ / RNVAD, Mads, Eskelund / HATAKEYAMA, Mariko / SCHÜ / LEIN, Martin / NIELSEN, Jack, Bech / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Jan 1999

...present invention relates to an **endo-P-1,4-glucanase** preparation derived from a *Saccharothrix*...polynucleotide molecule encoding an **endo-0-1,4-glucanase**, an isolated enzyme produced...preparation or the enzyme in the **detergent**, paper and pulp, oil drilling...

Full text available at patent office. For more in-depth searching go to  LexisNexis

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[8. ENDO- AND EXO-GLUCANASE POLYNUCLEOTIDES AND METHODS OF USE](#)

SIMMONS, Carl, R. / PIONEER HI-BRED INTERNATIONAL, INC., PATENT COOPERATION TREATY APPLICATION, Dec 2000

ENDO- AND EXO-GLUCANASE POLYNUCLEOTIDES AND METHODS OF USE...glucanases. BACKGROUND OF THE INVENTION **Endo-** and **exo-glucanases** are enzymes that can hydrolyze B-linked...1.58, Huber and Nevins 1982) and **endo-glucanases** (akin to EC 3.2.1.73, for examples...

Full text available at patent office. For more in-depth searching go to  LexisNexis

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[9. DETERGENT CONTAINING GLUCANASE](#)

KOTTWITZ, Beatrix / MAURER, Karl-Heinz / Henkel Kommanditgesellschaft auf Aktien, EUROPEAN PATENT, May 2000

...aufweist. Als β - **Glucanases** sollen hier Enzyme aus der Klasse der **Endo-1,3-1,4- β -D-**

glucan-4-glucanohydrolasen...Ebenfalls als **β-Glucanases** im Sinne der Erfindung gelten
Endo-1,3-β-D-glucosidasen...Laminarinasen). **β-Glucanases** spalten Mischglucane...
Full text available at patent office. For more in-depth searching go to LexisNexis
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10. DETERGENT COMPOSITIONS CONTAINING CELLULASE COMPOSITIONS DEFICIENT IN CBH I TYPE COMPONENTS

CLARKSON, Kathleen, A. / WEISS, Geoffrey, L. / LARENAS, Edmund, A. / SHOEMAKER, Sharon, P. / GENENCOR INTERNATIONAL, INC., EUROPEAN PATENT, Jul 1993

...endoglucanase components in **detergent** compositions complements...requirements of the **detergent** composition. The **endo-glucanase** component of this...herein to define **endo-glucanase** type components...similar properties in **detergent** compositions as...

Full text available at patent office. For more in-depth searching go to LexisNexis
[view all 199 results from Patent Offices](#)
[similar results](#)

11. Endoglucanase and Mannanase from Blue Mussel, Mytilus edulis: Purification, Characterization, Gene and Three Dimensional ...

Xu, Bingze, Jan 2002

...polysaccharide-degrading enzymes (**endo-1,4-D-glucanase** and ?-mannanase) from blue...polysaccharide-degrading enzymes (**endo-1,4-D-glucanase** and β-mannanase) from blue...thermostable, low molecular mass **endo-β-1,4-glucanase** from blue mussel, *Mytilus edulis*...

Full text available from DiVA
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12. DETERGENT COMPOSITIONS CONTAINING CELLULASE COMPOSITIONS DEFICIENT IN CBH I TYPE COMPONENTS

CLARKSON, Kathleen, A. / WEISS, Geoffrey, L. / LARENAS, Edmund, A. / SHOEMAKER, Sharon, P. / GENENCOR INTERNATIONAL, INC., PATENT COOPERATION TREATY APPLICATION, Apr 1992

...WO 89/09259 discloses that **detergent** compositions containing a...endoglucanase components in **detergent** compositions complements the pH requirements of the **detergent** composition. The **endo-glucanase** component of this reference...

Full text available at patent office. For more in-depth searching go to LexisNexis
[view all 199 results from Patent Offices](#)
[similar results](#)

13. Enzymatic properties, crystallization, and deduced amino acid sequence of an alkaline endoglucanase from *Bacillus*...

Hakamada, Y. / Endo, K. / Takizawa, S. / Kobayashi, T. / Shirai, T. / Yamane, T. / Ito, S., *Biochimica et Biophysica Acta (BBA)/General Subjects*, Apr 2002

...Crystallization Lichenase *Bacillus* Egl **endo-1,4- beta -glucanase** CMC carboxymethyl cellulose...study of *Bacillus* cellulase [**endo-1,4- beta -glucanase**, Egl (EC3.2.1.4)] has, until...effective additives to laundry **detergents** [1,3,4] . In 1988, we incorporated...

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14. DETERGENT CONTAINING GLUCANASE

KOTTWITZ, Beatrix / MAURER, Karl-Heinz / HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN, PATENT COOPERATION TREATY APPLICATION, Feb 1999

...verträglichen Inhaltsstoffen eine **β-Glucanase** enthält. Als **β-Glucanases** sollen hier Enzyme aus der Klasse der **Endo-1,3-1,4-β-D- glucan-4- glucanohydrolasen**...werden. Ebenfalls als **β- Glucanases** im Sinne der Erfindung gelten **Endo-1,3-β-D-glucosidasen** (EC...

Full text available at patent office. For more in-depth searching go to LexisNexis®
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- 15. Endoglucanase and Mannanase from Blue Mussel, *Mytilus edulis*: Purification, Characterization, Gene and Three Dimensional ...**
Xu, Bingze, Apr 2002
...polysaccharide-degrading enzymes (**endo-1,4-D-glucanase** and β -mannanase) from blue...thermostable, low molecular mass **endo- β -1,4-glucanase** from blue mussel, *Mytilus edulis*...and sequencing of a molluscan **endo- β -1,4-glucanase** gene from the blue mussel...
Full text thesis available via NDLTD
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- 16. Caracterització i propietats de dues endo-?-(1,4)-glucanases implicades en l'estovament del fruit de maduixa.**
Palomer Tarridas, Francesc Xavier, Jun 2002
...CARACTERITZACIÓ I PROPIETATS DE DUES **ENDO- β -(1,4)-GLUCANASES** IMPLICADES EN L'ESTOVAMENT...CARACTERITZACIÓ I PROPIETATS DE DUES **ENDO- β -(1,4)-GLUCANASES** IMPLICADES EN L'ESTOVAMENT...CARACTERITZACIÓ I PROPIETATS DE DUES **ENDO- β -(1,4)-GLUCANASES** IMPLICADES EN L'ESTOVAMENT...
Full text thesis available via NDLTD
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- 17. List of PDB codes [69K]**
Nov 1998
...inhibitor pki(5-24) and the **detergent** mega-8 1apy(A) - Human...Barley 1,3-1,4-beta-**glucanase** in monoclinic space group...d-glucan-glucanohydrolase, cellulase **endo-1,4-beta-**glucanase**** d 1cmb(A) - Met apo...at 15 degree C 1edt - **Endo**-beta-n-acetylglucosaminidase...
[<http://www.biochem.ucl.ac.uk/bsm/sidechains/dataset.htm>]
[similar results](#)
- 18. A THERMOSTABLE ENDO-BETA-1,4-GLUCANASE**
ANDERSEN, Lene, Nonboe / BJØRNVAD, Mads, Eskelund / SCHÜ / LEIN, Martin / NOVO NORDISK A/S, PATENT COOPERATION TREATY APPLICATION, Aug 1998
...91), **endo-beta-1,4-glucanase** (**endo- 1,4-beta-D-glucan**...different **endo-beta-1,4-glucanases** from *Trichoderma viride*...known that family 12 **endo-beta-1,4-glucanases** may also exhibit xyloglucanase...as ingredients in **detergent** compositions or fabric...
Full text available at patent office. For more in-depth searching go to LexisNexis®
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- 19. Enzymic activities responsible for xyloglucan depolymerization in extracts of developing tomato fruit**
Faik, A. / Desveaux, D. / MacLachlan, G., Phytochemistry, Sep 1998
...end-product activation of an **endo-1,4--glucanase** or XGase, for the following reasons: non-specific **endo-1,4--glucanase** (carboxymethylcellulase) activities...were recovered from buffer and **detergent**-extracts but were barely detectable...
Published journal article available from SCIENCE @ DIRECT
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- 20. Identification of thermostabilizing residues in a *Bacillus* alkaline cellulase by construction of chimeras from...**
Hakamada, Y. / Hatada, Y. / Ozawa, T. / Ozaki, K. / Kobayashi, T. / Ito, S., FEMS Microbiology Letters, Feb 2001

...alkaline **endo**-1,4- beta -**glucanase** that is suitable...for use in **detergents**. The deduced...Alkaline **endo**-1,4- beta -**glucanase** (Egl EC 3...effective **detergent** additive...alkaline **endo**-1,4- beta -**glucanases** from alkalophilic...for laundry **detergents**: production...

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endo-glucanase AND pH

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SciThe "AND" operator is unnecessary -- we include all search terms by default. [[details](#)]**Scholar**Results 1 - 10 of about 2,250 for **endo-glucanase AND pH**. (0.08 seconds)**pH regulates endoglucanase expression and virulence of *Alternaria alternata* in persimmon fruit - group of 4 »**

D Eshel, I Miyara, T Ailing, A Dinoor, D Prusky - Mol. Plant-Microbe Interact, 2002 - apsnet.org

... pH Regulates Endoglucanase Expression and Virulence of ... Effect of pH and glucose on AaK1 expression and endoglucanase production. ...
[Cited by 12](#) - [Web Search](#) - [BL Direct](#)**... the high enzyme activity in the alkaline pH range of an alkaline endoglucanase from a *Bacillus* sp. - group of 3 »**

JS Park, J Hitomi, S Horinouchi, T Beppu - Protein Engineering, 1993 - peds.oupjournals.org

... ARTICLES. Identification of two amino acids contributing the high enzyme activity in the alkaline pH range of an alkaline endoglucanase from a *Bacillus* sp. ...
[Cited by 5](#) - [Web Search](#) - [BL Direct](#)**Simultaneous production of high activities of thermostable endoglucanase and β-glucosidase by the ... - group of 3 »**

IV Gomes, JV Gomes, DJV Gomes, WV Steiner - Applied Microbiology and Biotechnology, 2000 - Springer

... FPase and endoglucanase activities were assayed at pH 4.5 as described by the International Union of Pure and Applied Chemistry (IUPAC 1987), using @lter ...
[Cited by 14](#) - [Web Search](#)**Lyticase: Endoglucanase and Protease Activities That Act Together in Yeast Cell Lysis - group of 3 »**

JH Scott, R Schekman - Journal of Bacteriology, 1980 - jb.asm.org

... Lyticase: Endoglucanase and Protease Activities That Act Together in Yeast Cell ... distribution of products was pH dependent, smaller oligomers predominating at ...
[Cited by 62](#) - [Web Search](#)**Cloning of a new endoglucanase gene from *Bacillus* sp. BP-23 and characterisation of the enzyme. ... - group of 3 »**

AG Blanco, PG Diaz, JG Martínez, TG Vidal, ALG ... - Applied Microbiology and Biotechnology, 1998 - Springer

... al. 1996; Iyo and Forsberg 1996), endo- glucanase A shows one of the lowest optimum pH values reported for an endoglucanase. At ...
[Cited by 16](#) - [Web Search](#) - [BL Direct](#)**Mannanase activity of Endoglucanase III from *Trichoderma reesei* QM9414 - group of 2 »**

RG Macarrón, CG Acebal, MPG Castillón, MG ... - Biotechnology Letters, 1986 - Springer

... describes the mannanase activity of a well-characterised endoglucanase of *Trichoderma* ... With the Pharmacia Phast System (Pharmacia, Sweden), pH titration curves ...
[Cited by 5](#) - [Web Search](#) - [BL Direct](#)**A study of the cellulases produced by three mesophilic actinomycetes grown on bagasse as substrate. - group of 2 »**

WH Van Zyl - Biotechnology and Bioengineering, 1985 - doi.wiley.com

... range of 4.0-8.0 at 50°C (using 0.05M citrate and phosphate buffers) and in the temperature range of 40-60°C at pH 5.0 for the endoglucanase and pH 6.0 for ...

Cited by 7 - Web Search

Characterization of a new endoglucanase from Erwinia chrysanthemi - group of 6 »

R endonucleases were obtained from New - Eur. J. Biochem, 1987 - blackwell-synergy.com

... Property Endo- Endo- glucanase Z glucanase Y purified from ... Methylum belliferyl -

P-cellobioside + Optimum pH 7 5.5 ... line was observed with the endoglucanase of E ...

Cited by 11 - Web Search

Purification and characterization of an endoglucanase (1, 4-beta-D-glucan glucanohydrolase) from ... - group of 5 »

TK Ng, JG Zeikus - Biochem. J, 1981 - pubmedcentral.nih.gov

... at pH 6.72. The pH and temperature optima of the endoglucanase were 5.2 and 62 degrees C respectively. The enzyme lacked cysteine ...

Cited by 14 - Web Search

Controlling simultaneous production of endoglucanase and beta-glucosidase by Fusarium oxysporum in ... - group of 2 »

PP Christakopoulos, DP Kekos, FNP Kolisis, BJP ... - Biotechnology Letters, 1995 - Springer

... 3) show that endoglucanase and glucosidase retained 50% of their activities at

pH 5.0 after 18.2 and 10.3 h at 60°C, respectively, whereas at 70°C the ...

Cited by 6 - Web Search - BL Direct

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endo-glucanase AND pH

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[CITATION] ... and properties of a thermostable **endoglucanase** from a All articles Recent articles thermophilic mutant strain of **Thielavia** ...

EG KVESITADZE, TB LOMITASHVILI, MP KHUTSISHVILI, R ... - Applied biochemistry and biotechnology. Part A: enzyme ..., 1995 - Humana Press

Isolation and properties of a thermostable **endoglucanase** from a thermophilic mutant strain of **Thielavia terrestris**. EG KVESITADZE ...

[Cited by 1](#) - Web Search - BL Direct

A comparison of the thermostability of cellulases from various thermophilic fungi

GA Wojtczak, CA Breuil, JA Yamada, JNA Saddler - Applied Microbiology and Biotechnology, 1987 - Springer

... **Thielavia** > ... However, when the **endoglucanase** activities of *T. terrestris* and *A.*

terreus were examined (Fig. ... The extracellular **endo-** **glucanase** of *A.* ...

[Cited by 4](#) - Web Search

Production and localization of cellulases and β-glucosidase from the thermophilic ... - group of 2 »

CB Breuil, GB Wojtczak, JNB Saddler - Biotechnology Letters, 1986 - Springer

... The enzyme production and localization of **Thielavia terrestris** strains C464 and

NRRL ... enzyme; the half life of *T. terrestris* (C464) **endoglucanase** activity at 60 ...

[Cited by 5](#) - Web Search

Exogenous Cellulases of Thermophilic Micromycetes. 11. Thermostability of Enzyme Preparations

D NIZHARADZE - Acta Biotechnol, 1986 - doi.wiley.com

... genera : *Chaetomium*, *Sporotrichum*, *Aspergillus*, **Thielavia**, *Fusarium*, *Walbranchea*, - ...

cultures, contain one cellulase component - **endoglucanase**, or two ...

[Web Search](#)

Endoglucanase production by entrapped *Bacillus thermoalkalophilus*

KBG Krishna, AG Varma - World Journal of Microbiology and Biotechnology, 1990 - Springer

... Further study of the use of inducers such as sophorose for **endoglucanase** production

by immobilized cells and the rate of diffusion of ... **Thielavia terrestris** ...

[Cited by 1](#) - Web Search

Optimization of fermentation conditions for thermostable cellulase production by *Thielavia terrestris* - group of 2 »

AC Margaritis, RFC Merchant - Journal of Industrial Microbiology and Biotechnology, 1986 - Springer

... reesi QM 9414 solka ftoc (t = 120 h) (c,d) **Thielavia** 1% w/v 0.17 ... The effect of temperature on growth and cellulase (fl-l-4-endoglucanase) production in the ...

[Cited by 3](#) - Web Search

Isolation and characterization of a cellulolytic actinomycete *Microbispora bispora*

CRJ Waldron, CAJ Becker-Vallone, DEJ Eveleigh - Applied Microbiology and Biotechnology, 1986 - Springer

... It grew readily at 55 ° C, produced an extracellular cellulase in good yield

(**endoglucanase**, 5.9 U/ml) that had a broad pH range (pH 5.5–7.2) and was ...

[Cited by 5](#) - Web Search

Purification and some properties of a thermostable acidic endo- β -1, 4-d-mannanase from Sclerotium (... - group of 3 »

FM Letters - FEMS Microbiology Letters, 1999 - blackwell-synergy.com
... fungi, eg from Aspergillus tamarii[5], Sporotrichum cellulophilum[6], **Thielavia terrestris**[7], and ... 1.9 U ml 1 xylanase, 2.9 U ml 1 **endoglucanase**, no detectable ...
Cited by 1 - Web Search

Cellulase-free xylanases from Bacillus and other microorganisms

FM Letters - FEMS Microbiology Letters, 2000 - blackwell-synergy.com
... 1988) Production of xylanase by the thermophilic fungus **Thielavia terrestris** ... enhanced activity against insoluble cellulose to Ruminococcus albus **endoglucanase IV** ...
Web Search

Cellulase production and activity in a species of Cladosporium - group of 2 »

BA Abrha, BAA Gashe - World Journal of Microbiology and Biotechnology, 1992 - Springer
... Cellulase is a complex consisting of **endoglucanase** (EC 3.2.1.4, 1,4-fl-D ... of fermentation conditions for thermostable cellulase production by **Thielavia terrestris** ...
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endo-glucanase AND detergent

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... Cel45formerly known as endoglucanase VI! from Humicola insolens in the presence of the denaturant guanidinium chlorideGdmCl! and the detergent C12-LASCH 3 CH 2 ...

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... The presence of the detergent also caused an increase in soluble ... Although

cell-free-fluid endoglucanase remained quantitatively unchanged, cultures grown ...

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... engineered fusion protein derived from endoglucanase I expressed ... protein of interest to the detergent-rich phase. ... work the fusion protein endo- glucanase I-core ...

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Enzyme preparation with **endoglucanase** activity

M Schulein, KM Oxenboll, LN Andersen, S Lassen, MS ... - Patent Number US Patent: 6071735, 2000 - csa.com
... relates to an isolated enzyme exhibiting cellulolytic (**endoglucanase**) activity at
alkaline ... the enzyme or enzyme composition, a **detergent** composition comprising ...
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... and prokaryotic signal peptides direct secretion of a bacterial **endoglucanase** by
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... lysed by the **detergent**, as judged by microscopy. 50- 1 2 3 4 5 6 1 2345 6 c d 19997
b 1 123 4 5 6 1 2.3 4 5 6 FIG. 2. Synthesis of radiolabeled **endoglucanase E** ...
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endo-glucanase AND detergent

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